

		ASPECT: Gather and record data								
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
Skills	With support, gather and record simple data in a range of ways (data tables, diagrams, Venn diagrams).	Use a range of methods (tables, charts, diagrams and Venn diagrams) to gather and record simple data with some accuracy.	Gather and record findings in a variety of ways (diagrams, tables, charts and graphs) with increasing accuracy.	Gather, record, classify and present observations and measurements in a variety of ways (pictorial representations, timelines, diagrams, keys, tables, charts and graphs).	Gather and record data and results of increasing complexity, selecting from a range of methods (scientific diagrams, labels, classification keys, tables, graphs and models).	Choose an appropriate approach to recording accurate results, including scientific diagrams, labels, timelines, classification keys, tables, models and graphs (bar, line and scatter), linking to mathematical knowledge.				
Knowledge	Data can be recorded and displayed in different ways, including tables, pictograms and drawings.	Data can be recorded and displayed in different ways, including tables, charts, pictograms and drawings.	Data can be recorded and displayed in different ways, including tables, charts, graphs and labelled diagrams. Data can be used to provide evidence to answer questions.	Data can be recorded and displayed in different ways, including tables, charts, graphs, keys and labelled diagrams.	Data can be recorded and displayed in different ways, including tables, bar and line charts, classification keys and labelled diagrams.	Data can be recorded and displayed in different ways, including tables, bar and line charts, scatter graphs, classification keys and labelled diagrams.				
Topic			H2 Woah! Yabba Dabba Do! Scrapheap challenge I Do Like To Be Beside The Seaside	Amazing Asia When in Rome Incredible Industry	Circles of Life To Infinity and Beyond! Eureka! Dragon Dynasty	Peace in our Time Survival of the Fittest				



		ASPECT: Questioning						
	EYFS	Year 1	Year 2		<u> </u>	Voor F	Voor C	
National Curriculum		Working scientifically: Ask simple questions and recognising that they can be answered in different ways. Use their observations and ideas to suggest answers to questions. Gather and record data to help in answering questions.		Year 3  Working scientifically: Ask relevant questions and use different types of scientific enquiries to answer them. Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. Use straightforward scientific evidence to answer questions or to support their findings.		Year 5  Working scientifically: Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.  Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics.		
Skills	Looks closely at similarities, differences, patterns and change in nature  Talks about the features of their own immediate environment and how environments might vary from one another  Makes observations of animals and plants and explains why some things occur, and talks about changes	Ask simple scientific questions.	Ask and answer scientific questions about the world around them.	Ask questions about the world around them and explain that they can be answered in different ways.	Ask relevant scientific questions, independently, about the world around them and begin to identify how they can answer them.	Ask a wide range of relevant scientific questions that broaden their understanding of the world around them and identify how they can answer them.	Ask and answer deeper and broader scientific questions about the local and wider world that build on and extend their own and others' experiences and knowledge.	



	Knows about	Question words include	Questions can help us	Questions can help us find	Questions can help us	Questions can help us find	Questions can help us
	similarities and	what, why, how, when,	find out about the	out about the world and	find out about the world	out about the world and can	find out about the world
	differences in	who and which.	world.	can be answered in	and can be answered in	be answered using a range	and can be answered
	relation to places,			different ways.	different ways.	of scientific enquiries.	using a range of
	objects, materials						scientific enquiries,
	and living things						including fair tests,
							research and
	Know some						observation.
	similarities and						
	differences						
	between the						
	natural						
	world around						
	them and						
Knowledge	contrasting						
\ \rac{k}{e}	environments,						
٥	drawing on their						
호	experiences and						
	what has been						
	read in class						
	Understand some						
	important						
	processes and						
	changes in the						
	natural world						
	around them,						
	including the						
	seasons and						
	changing						
	states of matter.						
	states of matter.			H2 Woah!	Amazing Asia	Circles of Life	Peace in our Time
				Yabba Dabba Do!	When in Rome	To Infinity and Beyond!	Survival of the Fittest
<u>.</u> 2				Scrapheap challenge	Incredible Industry	Eureka!	Julyival of the Hittest
Topic				I Do Like To Be Beside The	micreaible maustry	Dragon Dynasty	
ľ				Seaside		Diagon Dynasty	
				Seaside			



		ACDECT. Management						
		ASPECT: Measurement						
	EYFS	Year 1	Year 2	Year 3 Take measurements in	Year 4	Year 5	Year 6	
		With support, use simple equipment to measure	Use simple equipment to measure and make	standard units, using a		Take increasingly accurate measurements in standard	Take accurate, precise and repeated	
		and make observations.	observations.	range of simple		units, using a range of	measurements in	
<u> </u>		and make observations.	observations.	equipment.		chosen equipment.	standard units, using a	
Skills				equipment		chosen equipment.	range of chosen	
							equipment.	
		Simple equipment is	Simple equipment is	Equipment is used to take		Specialised equipment is	Specialised equipment is	
		used to take	used to take	measurements in standard		used to take measurements	used to take accurate	
		measurements and	measurements and	units. Examples include		in standard units. Examples	measurements in	
(I)		observations. Examples	observations.	data loggers plus sensors,		include data loggers plus	standard units. Examples	
gpa		include metre sticks, measuring tapes, egg	Examples include timers, hand lenses,	timers (seconds, minutes and hours), thermometers		sensors, such as light (lux), sound (dB) and temperature	include data loggers plus sensors, such as light	
N/e		timers and hand lenses.	metre sticks and	(°C) and metre sticks.		(°C); timers thermometers	(lux), sound (dB) and	
Knowledge		timers and nama tenses.	trundle wheels.	Taking repeat readings can		(°C), and measuring tapes	temperature (°C); timers;	
				increase the accuracy of		( ),	thermometers (°C) and	
				the measurement.			measuring tapes	
				H2 Woah!	Amazing Asia	Circles of Life	Peace in our Time	
<u>.</u> 2				Yabba Dabba Do!	When in Rome	To Infinity and Beyond!	Survival of the Fittest	
Topic				Scrapheap challenge	Incredible Industry	Eureka!		
				I Do Like To Be Beside The		Dragon Dynasty		
				Seaside ASPECT: I	nvestigation			
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
		With support, follow	Follow a set of		Begin to independently	Plan and carry out a range		
		instructions to perform	instructions to perform		plan, set up and carry	of enquiries, including		
		simple tests and begin to	a range of simple tests,		out a range of	writing methods, identifying		
<u>  </u>		talk about what they	making simple		comparative and fair	variables and making		
Skills		might do or what might	predictions for what		tests, making predictions	predictions based on prior		
		happen.	might happen and		and following a method	knowledge and		
			suggesting ways to answer their questions.		accurately.	understanding.		
			answer then questions.					



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	Talk about what they have done and say, with help, what they think they have found out.	Begin to notice patterns and relationships in their data and explain what they have done and found out using simple scientific language.	Use suitable vocabulary to talk or write about what they have done, what the purpose was and, with help, draw a simple conclusion based on evidence collected, beginning to identify next steps or improvements.	Use scientific vocabulary to report and answer questions about their findings based on evidence collected, draw simple conclusions and identify next steps, improvements and further questions.	Use relevant scientific vocabulary to report on their findings, answer questions and justify their conclusions based on evidence collected, identify improvements, further questions and predictions.	Report on and validate their findings, answer questions and justify their methods, opinions and conclusions, and use their results to suggest improvements to their methodology, separate facts from opinions, pose further questions and make predictions for what they might observe.
Knowledge	Simple tests can be carried out by following a set of instructions.	Tests can be carried out by following a set of instructions. A prediction is a guess at what might happen in an investigation.		Scientific enquiries can be set up and carried out by following or planning a method. A prediction is a statement about what might happen in an investigation, based on some prior knowledge or understanding. A fair test is one in which only one variable is changed and all others remain constant.	A method is a set of clear instructions for how to carry out a scientific investigation. A prediction is a statement about what might happen in an investigation based on some prior knowledge or understanding.	
Skills	Observe objects, materials, living things and changes over time, sorting and grouping them based on their features.		Make increasingly careful observations, identifying similarities, differences and changes and making simple connections.	Begin to choose which observations to make and for how long and make systematic, careful observations and comparisons, identifying changes and connections.	Within a group, decide which observations to make, when and for how long, and make systematic and careful observations, using them to make comparisons, identify changes, classify and make links between cause and effect.	Independently decide which observations to make, when and for how long and make systematic and careful observations, using them to make comparisons, identify changes, classify and make links between



						cause and effect.
	Objects, materials and		An observation involves	An observation involves	An observation involves	An observation involves
	living things can be		looking closely at objects,	looking closely at	looking closely at objects,	looking closely at
	looked at and compared.		materials and living things,	objects, materials and	materials and living things.	objects, materials and
ge			which can be compared	living things.	Accurate observations can	living things. Accurate
led			and grouped according to	Observations can be	be made repeatedly or at	observations can be
Knowledge			their features.	made regularly to	regular intervals to identify	made repeatedly or at
Kn				identify changes over	changes over time.	regular intervals to
				time.		identify changes over
						time, identify processes
						and make comparisons.
		Results are information	Results are information	Results are information,	The results are information,	Data can be recorded
	Results are information	that has been found	that has been discovered	such as data or	such as measurements or	and displayed in
	that has been found out	out from an	as part of an investigation.	observations, that have	observations, that have	different ways, including
	from an investigation.	investigation and can	A conclusion is the answer	been found out from an	been collected during an	tables, bar and line
		be used to answer a	to a question that uses the	investigation. A	investigation. A conclusion	charts, scatter graphs,
		question.	evidence collected.	conclusion is the answer	is an explanation of what	classification keys and
				to a question that uses	has been discovered using	labelled diagrams.
				the evidence collected.	evidence collected.	
			H2 Woah!	Amazing Asia	Circles of Life	Peace in our Time
ى ن			Yabba Dabba Do!	When in Rome	To Infinity and Beyond!	Survival of the Fittest
Topic			Scrapheap challenge	Incredible Industry	Eureka!	
Ĕ			I Do Like To Be Beside The	-	Dragon Dynasty	
			Seaside			
	question answer observ	ve equipment identify	enquiry comparative/fair test systematic accurate		variables measurements precision repeat readings	
	classify sort diagram chart map data compare		measurements observation thermometer data		classification scatter/bar/line graphs	
lany	contrast describe biolo	gy chemistry physics	logger gather record reco	ord classify present	further comparative/fair to	est causal relationships
vocabulary	group record		labelled diagram bar chart tables explanation		support/refute identify/classify/describe quantitative	
осэ			conclusion prediction similarities changes		·	
>			evidence improve secondary sources keys			
			construct interpret			
			'		I.	